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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/813,899	03/31/2004 John Riley Hawkins		101896-662 (DEP5055USNP)	1803	
	21125 7590 12/03/2007 NUTTER MCCLENNEN & FISH LLP			EXAMINER	
WORLD TRADE CENTER WEST			IZQUIERDO, DAVID A		
	155 SEAPORT BOULEVARD BOSTON, MA 02210-2604		ART UNIT	PAPER NUMBER	
			3738		
			NOTIFICATION DATE	DELIVERY MODE	
			12/03/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket@nutter.com

		171				
	Application No.	Applicant(s)				
	10/813,899	HAWKINS ET AL.				
Office Action Summary	Examiner	Art Unit				
	David A. Izquierdo	3738				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 30 O	ctober 2007.	,				
3) Since this application is in condition for allowar closed in accordance with the practice under E	nce except for formal matters, prosecution as to the merits is Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-4,6-10,12,13 and 54-66 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 54-66 is/are allowed. 6) ☐ Claim(s) 1-4,6-10,12 and 13 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 30 October 2007 has been entered.

Response to Arguments

2. Applicant's arguments filed 30 October 2007 have been fully considered but they are not persuasive. Applicant has argued that the 35 U.S.C. 103(a) rejection, Robie et al. ("Robie")(U.S. Patent Application Publication Number 2002/0161366) in view of Landry et al. ("Landry")(U.S. Patent Application Publication Number 2003/0233145) is improper because neither reference disclose a midline marker. However, the limitation "midline marker" is only used to describe a device which can be embedded in a face of a vertebral body, there is no mention of marking a midline within the claims. Furthermore, as the template (50) of Robie is impacted the template inherently embeds itself within a portion of the vertebral body.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 4. Claims 1, 2, and 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Robie et al. (U.S. Patent Application Publication Number 2002/0161366) in view of Landry et al. (U.S. Patent Application Publication Number 2003/0233145).
- 5. Robie et al attaches the template (50) to a vertebral body as a midline marker, where the midline marker (50) is inserted in the guide of figure 4a and impacted until embedded with the vertebral body (P0058). An artificial disc (Hedrocel ALIF) is selected for implantation verified, where the size is verified by the insertion depth of the distractor (P0060), shown in Figure 10 and the implant is prepared for implantation (0061) by stuffing the implant with autologous bone. A window is removed from the annulus, where the window is the width of an artificial implant (P0052) and the nucleus pulposus is removed, as is inherent in the discectomy (P0053). For the purposes of claims 7, the distractors (10) will be trial spacers that are changed until an appropriate size is determined (P0056). The endplates are shaped by a reamer instrument (P0059), reamer instruments having blades, where the shaping instrument is guided by the midline marker (50) (P0059). The template is finally removed (P0063). As per claim 8, the trial spacers (10) are contacted by an insertion tool with a pin end (Figure 3B), where the template (50) (midline marker) is inserted with the pin insertion instrument of Figure 4A where the insertion instrument is removed as per the method figures 5-12.
- 6. However, Robbie et al. fails to disclose the use of a midline marker as a guide. Landry et al. disclose the use of an insertion guide, which acts as a midline marker, as disclosed above. It would have been obvious to one of ordinary skill in the art at the time of the invention to

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combine the use of a guide to direct a distraction member as taught by Landry et al. with a method of implanting an artificial disc, as per Robbie et al. The motivation to combine being that a guide will accurately place the distracter within the disc space, as found in Landry et al. (P0022).

Robie et al. in view of Landry et al. in further view of Michelson (U.S. Patent Application Publication Number 2002/0058944) Robie et al in view of Landry et al. is discussed supra. However Robie et al in view of Landry et al. does not disclose radiographical markers. Michelson teaches radiographical (P0069) in the same field of endeavor or the analogous art of surgery for the purpose of radiographical imaging. It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the teaching of radiographical markers, as taught by Michelson, to aid in radiographical visualization as per Robbie, in order to assure the implant is aligned properly and to verify the implant (Michelson P0069).

Allowable Subject Matter

8. Claims 54-66 are allowable over the prior art of record.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A. Izquierdo whose telephone number is 571-272-1943.

The examiner can normally be reached on Monday through Friday from 8:00 am until 4:30 pm.

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10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Corrine McDermott can be reached on 571-272-4754. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent 11.

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David A. Izquierdo

Patent Examiner .

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